

FIG. 1A

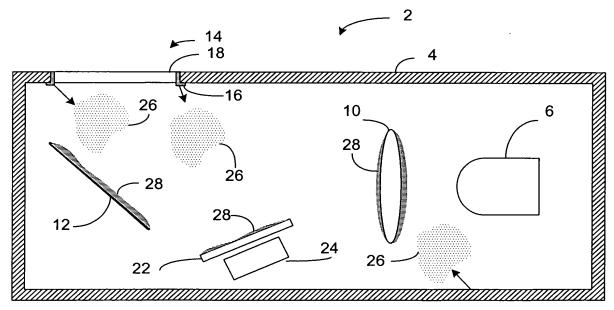
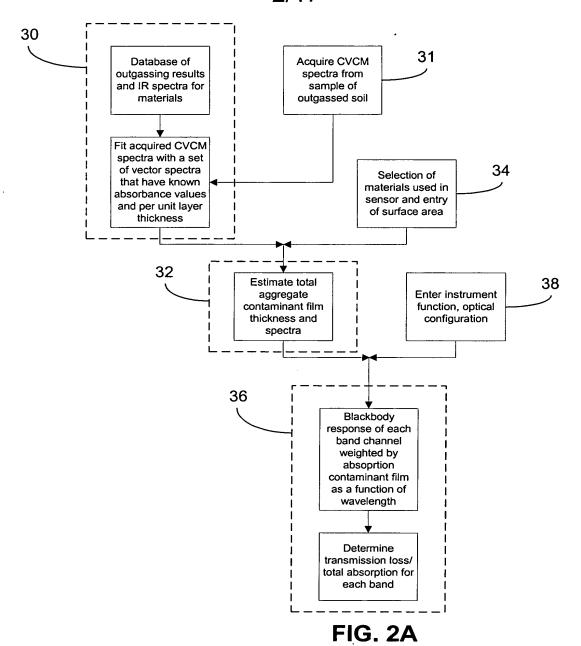


FIG. 1B



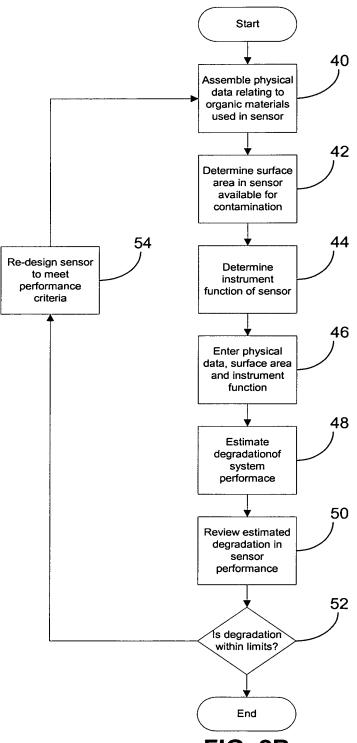


FIG. 2B

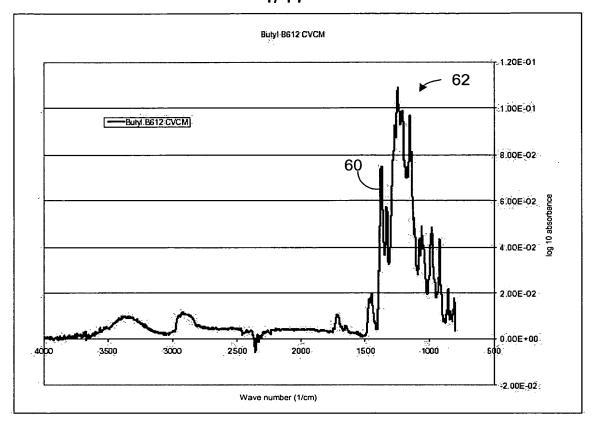
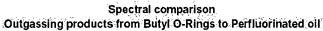


FIG. 3



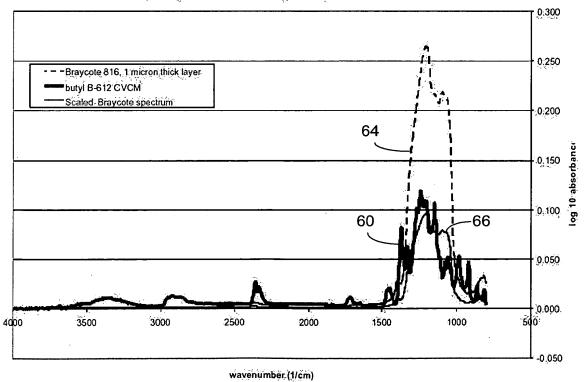
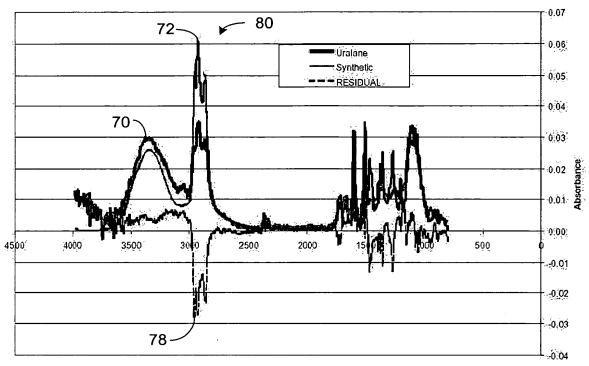


FIG. 4

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Synthetic spectrum - Uralane



Wavenumber ( 1/cm)

76 -

74

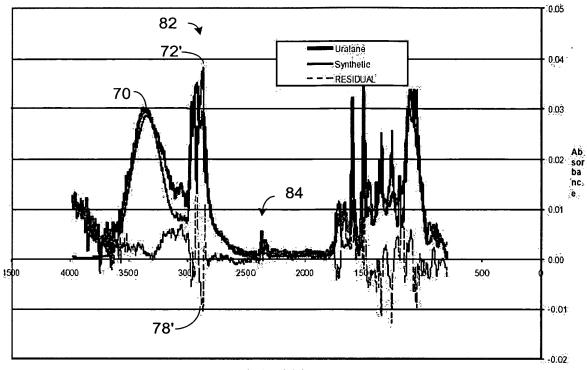
FIG. 5

contaminant
amine
alcohol
ester
ester
carboxylic acid
hydrocarbon

FIG. 6

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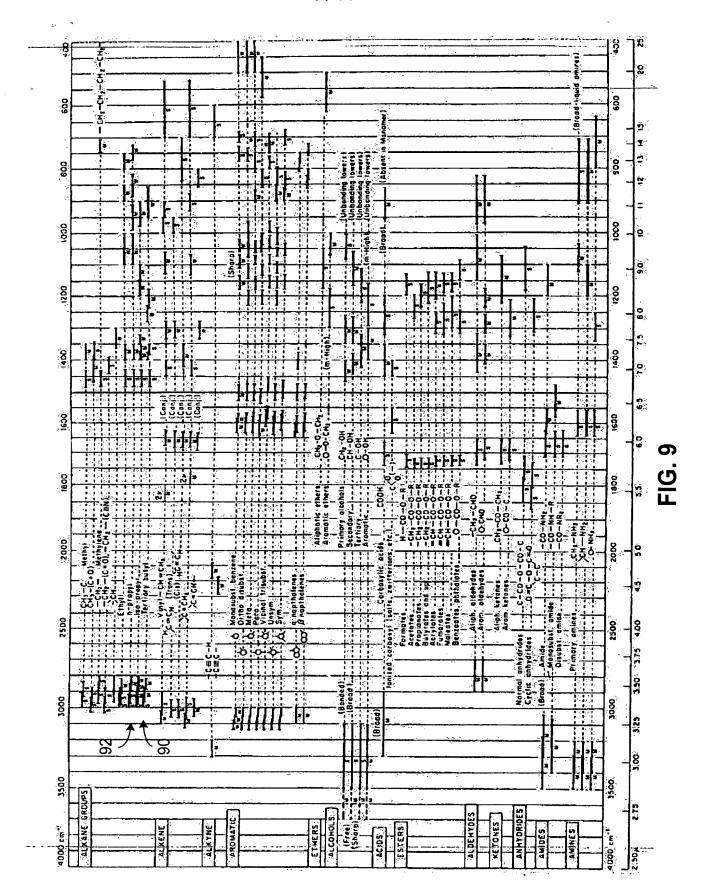
## Synthetic spectrum - Uralane compensation of C-H using n-nonane vector

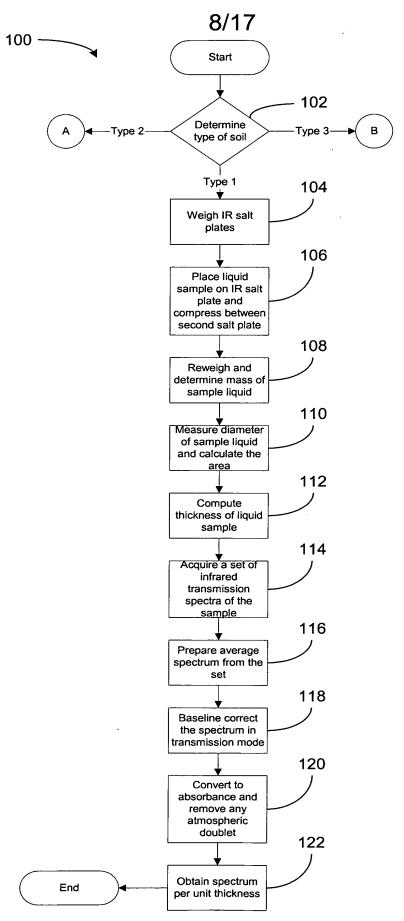


Wavenumber (1/cm)

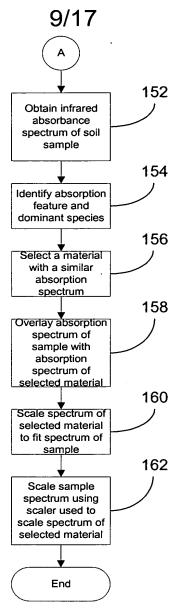
**FIG. 7** 

74'	76' — 86	~	88
Vector	Applied thickness	Density	Density weighted thickness A
N,N-diethylanliline Polyethylene glycol 1-pentanol dioctyl phthalate dioctyl sebecate Octanoic acid n-nonane	(microns) .30 .40 .35 .05 .05 .05 -0.50	(g cm <sup>-3</sup> ) 0.94 1.1 0.81 0.97 0.91 0.91	(micron g cm <sup>-3</sup> ) 0.282 0.440 0.284 0.048 0.046 0.046 -0.360
sum	0.70	6.36	0.79
Equivalent thickness 79'	0.70 (micron)	N/A	0.87 (micron) <b>←</b> 79"
, 0	FIG. 8		

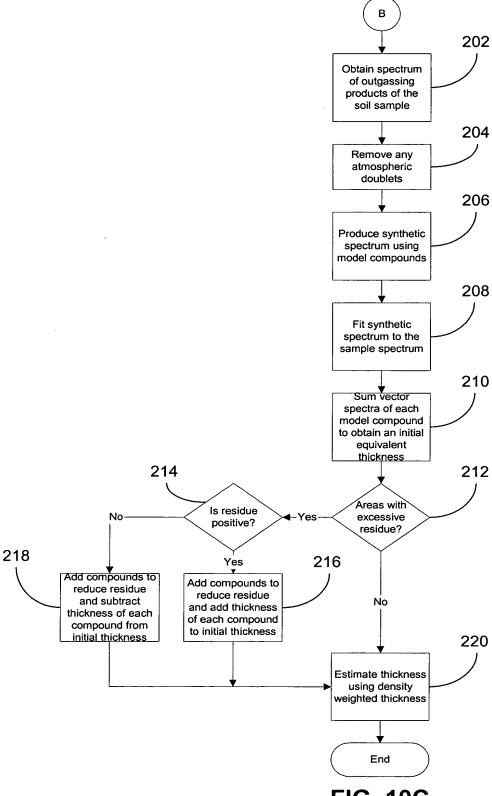




**FIG. 10A** 



**FIG. 10B** 



**FIG. 10C** 

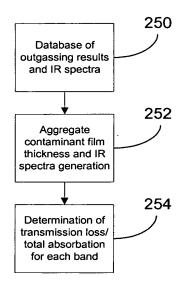
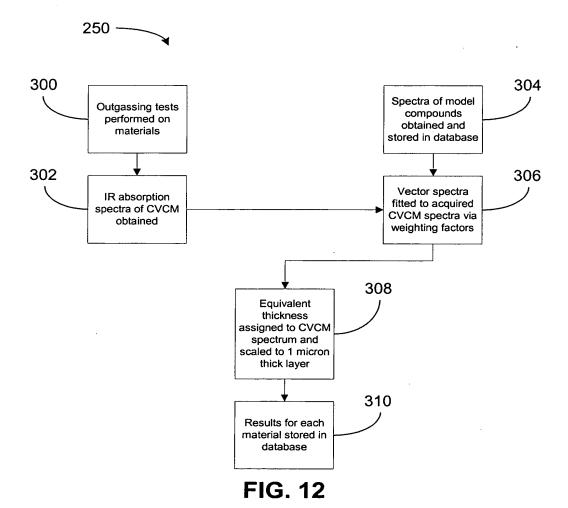


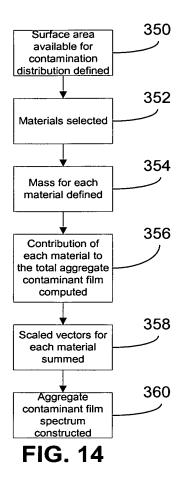
FIG. 11



	<b>12/17 ►</b> 320					
322		3	26			
328	Model Compounds	Outgassing results	IR Spectra data			
<b>\</b>	Dioctyl Phthalate	OR1	SD1			
330	Dioctyl Sebcate	OR2	SD2			
	•	•	•			
332	Compound n	ORn	SDn			

FIG. 13

252 —



37	70 🚤 37	2 _ 374	4 🚤 376	3 🔪	378 🔪	380 🔪
Soil	Volume Of material	Density Of material	CVCM Of material	Density of CVCM	Estimated volume of CVCM / NVR	Estimated thickness Of CVCM/ NVR
	(cm <sup>3</sup> )	(g cm <sup>-3</sup> )	(% m/m)	(g cm <sup>-3</sup> )	(cm³)	(nm)
outgassing Adhesive 1 Polymer A	2.5 60	1.0 1.5	0.05 0.005	1:0 1:0	1.2 x 10 <sup>-3</sup> 4.5 x10 <sup>-3</sup>	1.5 5.6
<i>NVR</i> Hydrocarbon	0.080	1.0	1.00	1.0	8.0 x 10 <sup>-2</sup>	100

FIG. 15

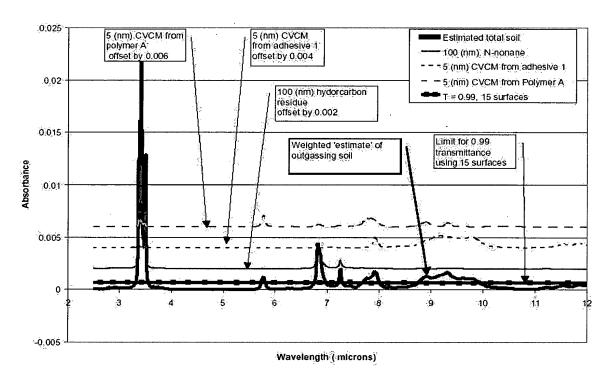
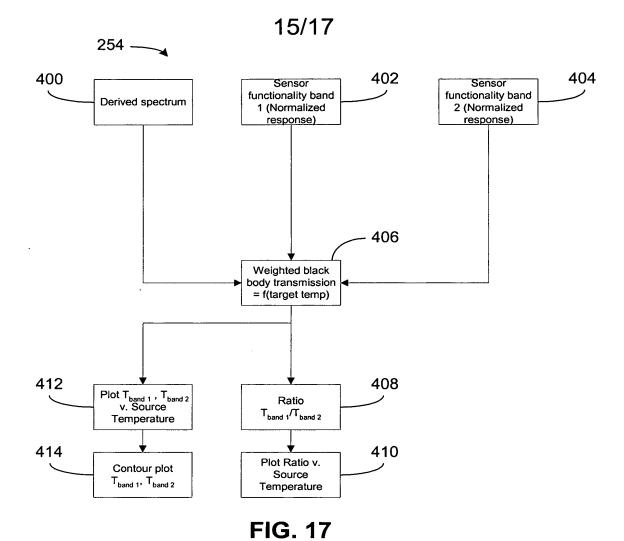
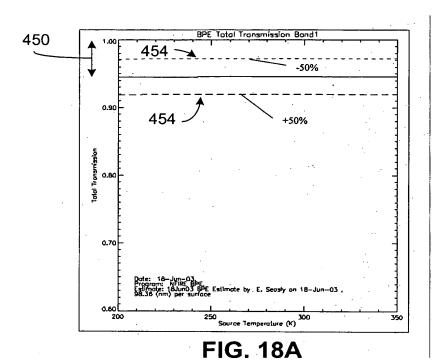
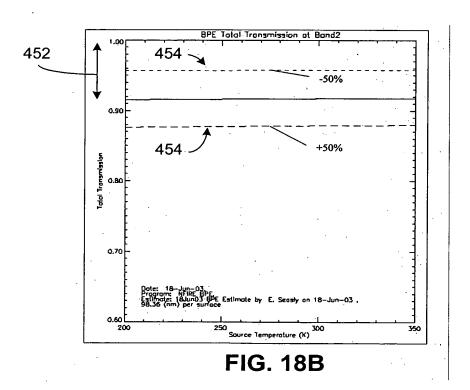


FIG. 16







## Band 1 Transmittance

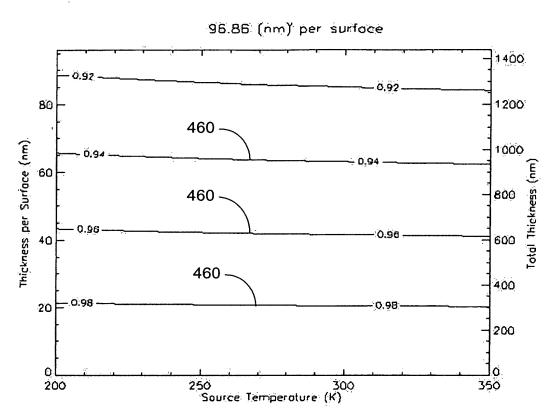


FIG. 18C

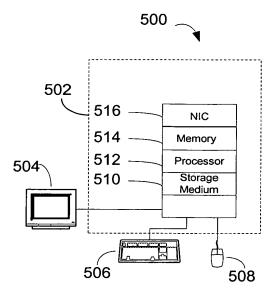


FIG. 19